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APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
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09/008,945 01/20/98 GRIFFITH-CIMA

EXAMINER
L 26220-0169

HM31/0623

ART UNIT PAPER NUMBER

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NAFF, D

DATE MAILED:
1651

06/23/98

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS

OFFICE ACTION SUMMARY

☒ Responsive to communication(s) filed on 1/20/98

☐ This action is FINAL.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 D.C. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 1-18 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 1-18 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of Reference Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s) _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--SEE OFFICE ACTION ON THE FOLLOWING PAGES--

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Art Unit: 1651

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The Group and/or Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 1651.

5 Claims examined on the merits are 1-18 which are all claims in the application.

 This application has been filed as a division of parent application 08/056,140, now patent no. 5,709,854. However, this application appears to be a continuation of the parent application since the claims are
10 directed to the same invention as in the parent application except for claim scope. A division application is for a distinct or independent invention (MPEP 201.06).

 Claims 1-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly
15 claim the subject matter which applicant regards as the invention.

 The claims are confusing and unclear by requiring "implanting tissue" in the preamble of claims 1 and 11. The hydrogel solution prepared contains cells and not tissue and the cells instead of tissue is implanted.

20 Claim 1 does not have clear antecedent basis for "the mixture" in line 5.

 Claims 5 and 6 are unclear as to when gel hardening takes place.

 In claims 8 and 18, "and other cells that" is confusing.

 Claim 9 is unclear as to how the hydrogel of claim 1 can be molded
25 prior to implanting since claim 1 requires a hydrogel solution.

Claim 10 is unclear as to how molding takes place after implanting since molding would require a device to provide shape. Also, claim 1 requires a hydrogel solution which cannot be molded.

5 Claims 12, 13, 15, 16 and 17 are unclear as to how they further limit the composition of claim 11. The limitations of these claims appear to be drawn to conditions during a process of use, and do not further limit the composition of claim 11 which is a hydrogel solution mixed with dissociated cells.

10 The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

15 A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

20 Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-18 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-11 of U.S. Patent No. 5,709,854 or claims 1-19 of U.S. Patent No. 5,667,778. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims of the patents require producing a hydrogel solution containing cells and injecting the solution to form tissue *in vivo*, and make obvious the formation and implanting of a hydrogel solution containing cells to form tissue as presently claimed.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

5 A person shall be entitled to a patent unless
 (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

10 Claims 1-18 are rejected under 35 U.S.C. 102(a) as being anticipated
 by Atala et al (Journal of Urology) (presented at annual meeting on Oct.
 10-15, 1992).

The claims are drawn to a method and composition wherein a hydrogel solution containing cells is formed and the solution is implanted to form tissue *in vivo*.

15 Atala et al disclose preparing an injectable alginate solution containing cells and injecting the solution to form tissue *in vivo*.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Naff whose telephone number is (703) 308-0520. The examiner can normally be reached on
20 Monday-Thursday and every other Friday from about 8:30 AM to about 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, a message can be left on voice mail.

If attempts to reach the examiner by telephone are unsuccessful, the
25 examiner's supervisor, Mike Wityshyn, can be reached at telephone number (703) 308-4743.

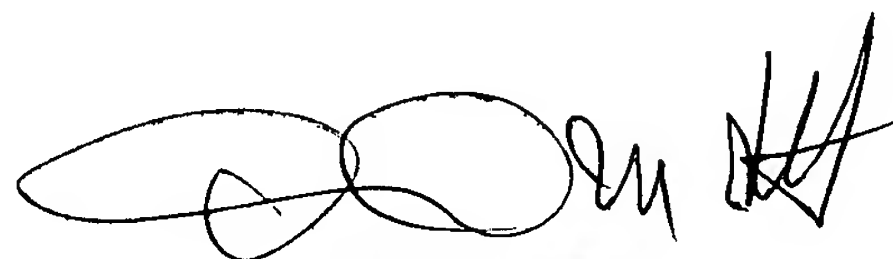
The fax phone number is (703) 305-3014 or 308-4242.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

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DAVID M. NAFF
PRIMARY EXAMINER
ART UNIT 1651

DMN
6/22/98